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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------------------------------|----------------------|---------------------|------------------|
| 10/048,167 | 10/048,167 04/18/2002 Etienne Lebas | | 612.41094 X00 4377 | |
| 20457 | 7590 05/25/2004 | | EXAMINER | |
| | I, TERRY, STOUT & | LANGEL, V | LANGEL, WAYNE A | |
| 1300 NORTH SEVENTEENTH STREET SUITE 1800 | | | ART UNIT | PAPER NUMBER |
| ARLINGTON, VA 22209-9889 | | | 1754 | |

DATE MAILED: 05/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER | FILING DATE | DOH8167

FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

| EXAMINER | | | | |
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| ART UNIT | PAPER NUMBER | | | |

DATE MAILED:

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

| This application has been examined | Responsive to communic | ation filed on $4-23-04$ | This action is made final. | | | | |
|---|---------------------------------|---|---|--|--|--|--|
| A shortened statutory period for response to this action is set to expire month(s), days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133 | | | | | | | |
| Part I THE FOLLOWING ATTACHMENT | (S) ARE PART OF THIS ACTIO | N: | | | | | |
| Notice of References Cited by E Notice of Art Cited by Applicant, Information on How to Effect Dra | PTO-1449. | Notice of Draftsman's F Notice of Informal Pate S | Patent Drawing Review, PTO-948. nt Application, PTO-152. | | | | |
| Part II SUMMARY OF ACTION | | | | | | | |
| 1. Claims_ | -19 | | are pending in the application. | | | | |
| Of the above, claims | | a | re withdrawn from consideration. | | | | |
| 2. Claims | | | have been cancelled. | | | | |
| 3. Claims | | - | are allowed. | | | | |
| 3. Claims | 1-19 | | are rejected. | | | | |
| <u>'</u> | | | are objected to. | | | | |
| 6. Claims | | are subject to restric | tion or election requirement. | | | | |
| 7. This application has been filed with | informal drawings under 37 C.F. | R. 1.85 which are acceptable for exa | mination purposes. | | | | |
| 8. Formal drawings are required in re- | sponse to this Office action. | | | | | | |
| | | . Under 37 Draftsman's Patent Drawing Review, | | | | | |
| 10. The proposed additional or substite examiner; disapproved by the | | has (have) been | □ approved by the | | | | |
| 11. The proposed drawing correction, f | iled, ha | is been □approved; □disapprove | ed (see explanation). | | | | |
| 12. Acknowledgement is made of the c been filed in parent application, | | 119. The certified copy has beer ; filed on | received not been received | | | | |
| 13. Since this application apppears to be accordance with the practice under | | ept for formal matters, prosecution as 453 O.G. 213. | to the merits is closed in | | | | |
| 14. Other | | | | | | | |

EXAMINER'S ACTION

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14, 15, 18 and 19 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Martin et al., for the reasons given in the last Office action. Applicant's argument, that thermal generator 50 of Martin et al. situated at the outlet of dust separator 1 does not carry out partial combustion of regeneration gas, is not convincing, since claims 14, 15, 18 and 19 are apparatus claims and do not require the partial combustion of the regeneration

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gas. Furnace 50 of Martin et al. would constitute "means for partial combustion of the regeneration gas", notwithstanding the fact that it is not used for such purpose. In any event, Martin et al. teach at column 6, lines 27-30 that the used absorbent is preheated by contacting it with hot carrier gases coming from thermal generator 50, and further disclose at column 7, lines 45-47 that the regeneration gas comprises a hydrocarbon. It would be prima facie obvious from such disclosures of Martin et al. to partially combust the regeneration gas in the process, since it is well-known that hydrocarbons are suitable fuels for combustion.

Claims 1-4, 6, 7 and 13 are rejected under 35 U.S.C. §

103(a) as being unpatentable over Martin et al. Applicant's argument, that thermal generator 50 of Martin et al. does not carry out partial combustion of regeneration gas, is not convincing. Martin et al. teach at column 6, lines 27-30 that the used absorbent is heated by contacting it with hot fumes or hot carrier gases coming from the thermal generator 50, and further disclose at column 7, lines 45-47 that the regeneration gas may be a hydrocarbon. It would be prima facie obvious from such disclosures of Martin et al. to partially combust the regeneration gas in thermal generator 50, since one of ordinary skill in the art would recognize that a hydrocarbon would be a

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suitable fuel for generating hot fumes in burner 52 of furnace 50.

Claims 5, 8, 9, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al. as applied to claims 1-4, 6, 7, 13-15, 18 and 19 above, and further in view of Canadian 1,136,384, for the reasons given in the last Office Applicant's argument, that the Canadian patent clearly does not disclose and would not have suggested carrying out partial combustion of the regeneration gas upstream from the regeneration and mixing the products of the partial combustion with the used absorbent prior to the regeneration-filtration stage, is not convincing, since Canadian '384 is relied upon merely to show the limitations recited in claims 5, 8, 9, 16 and 17.

Claims 10-12 are objected to as based on a rejected parent claim, and would be allowed if written in independent form.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS ACTION. OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION

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IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne A. Langel whose telephone number is (571) 272-1353. The examiner can normally be reached on Monday through Friday from 8 A.M. to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on (571) 272-1358. The fax phone number for this Group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR. Status information for unpublished applications is available through private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

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access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WAL:cdc

May 21, 2004

Mayne a. Langel
WAYNE A. LANGEL
PRIMARY EXAMINER